

# Northwest Water Planning Alliance: from Intergovernmental Agreement to Collaboration

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Water Resource Planner

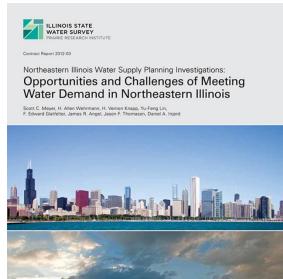
Environ. and Natural Resources Comm. November 5, 2014



Regional Water Supply/Demand Plan



ALLIANCE

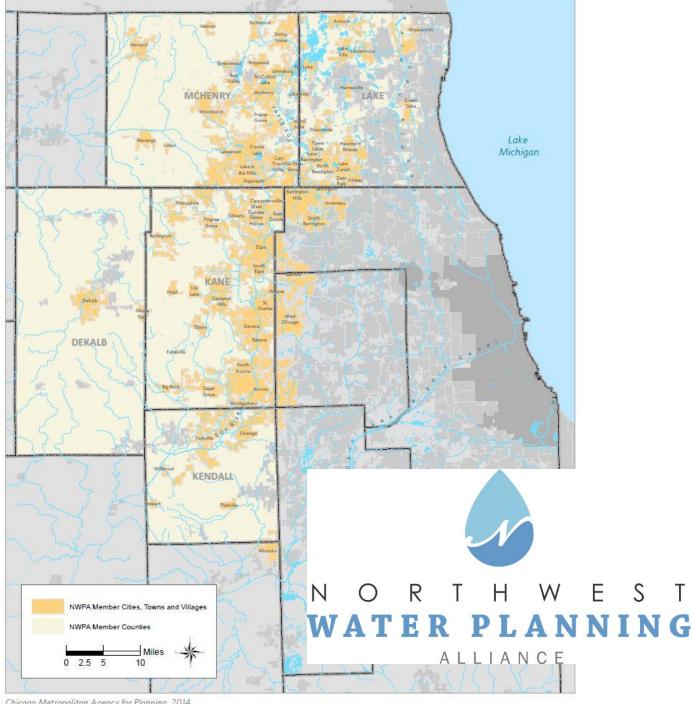


**I**ILLINOIS

March 2010

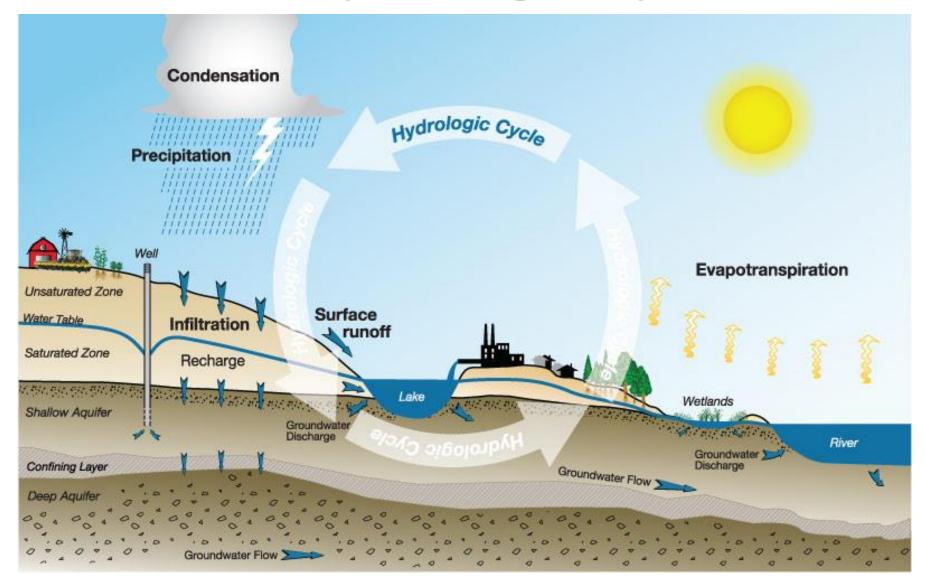
#### Mission Statement

The Northwest Water Planning Alliance (NWPA), formed by intergovernmental agreement, seeks to collaboratively plan for and steward our shared river and groundwater resources to ensure a sustainable water supply for the people, economy, environment, and future generations.



Chicago Metropolitan Agency for Planning, 2014.

#### The Hydrologic Cycle



#### **NWPA Governance**

Technical Advisory Committee

Executive Committee

Recommendations to members

Member implementation ... voluntary but wise!

#### **NWPA Accomplishments**

\* WaterSense Partnership Program 33 members and counting ...



#### **NWPA Accomplishments**

- \* WaterSense Partnership Program
- \* Resource Commitments
  - Monthly TAC meetings,
  - bimonthly EC meetings,
  - Staff support provided by:







Chicago Metropolitan Agency for Planning

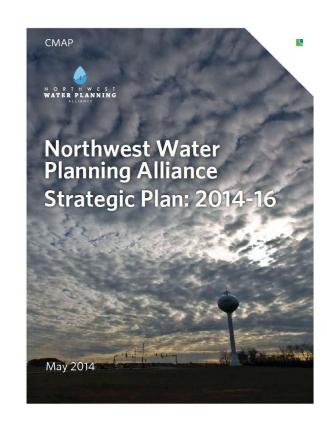
#### **NWPA Accomplishments**

\* Outdoor watering ordinance (6) see website:

http://www.nwpa.us/

\* 2014-2016 Strategic Plan

\* Recognized by IDNR and IEPA!



#### Strategic Plan 2014-2016

#### 3 Goals -

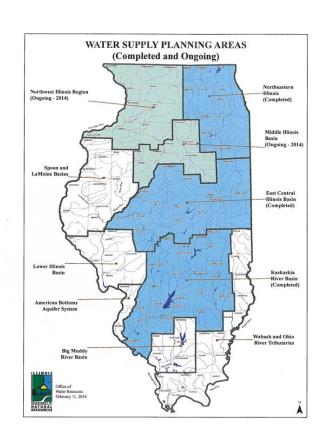
- \* Build the **organizational capacity** to achieve mission.
- \* Provide **education and outreach** to raise awareness of the value of water as a finite asset.
- \* Develop sustainable water-use policies and practices that are widely adopted and protective of water supplies.

#### **Goal B: Education & Outreach**

#### Develop and deliver presentations to member boards, councils, and others

#### 2014 priority topics:

- \* raise awareness of the NWPA!
- \* data sharing to build capacity
- \* outdoor-watering ordinance
- \* NWPA role in regional planning



#### **Protecting a Shared Resource**

#### Requires <u>your</u> cooperation!

**NEW** Monthly online water-use reporting tool

- \* satisfies your annual IWIP obligation
- \* allows collective tracking of change/trends
- \* enables NWPA to make informed recommendations!

#### **NWPA Water-Use Reporting**

Aurora

Barrington

Bartlett

Batavia

Crystal Lake

Elburn

Elgin

Fox River Grove

Geneva

Harvard

Hebron

Hinckley

Lake in the Hills

Lake Barrington

Lake Villa

Lake Zurich

McHenry

Montgomery

Newark

North Aurora

Lake Co. PW – Brooks Farm Subdivision

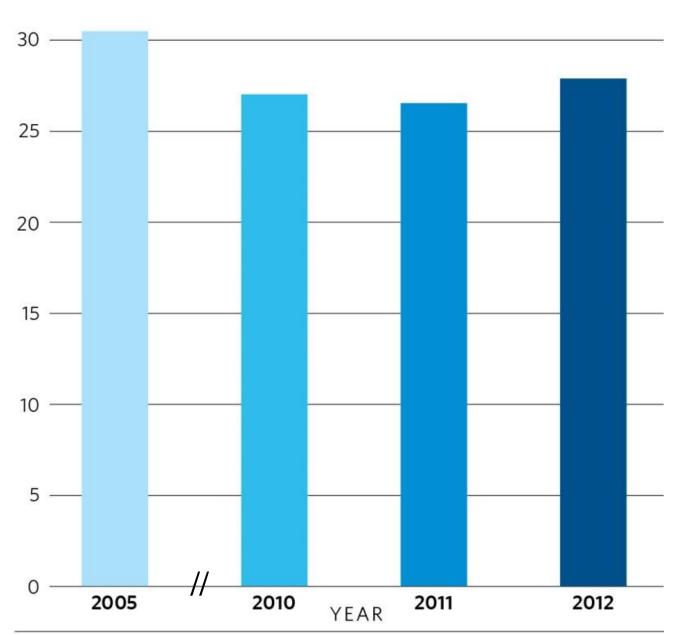
Oswego

Sugar Grove

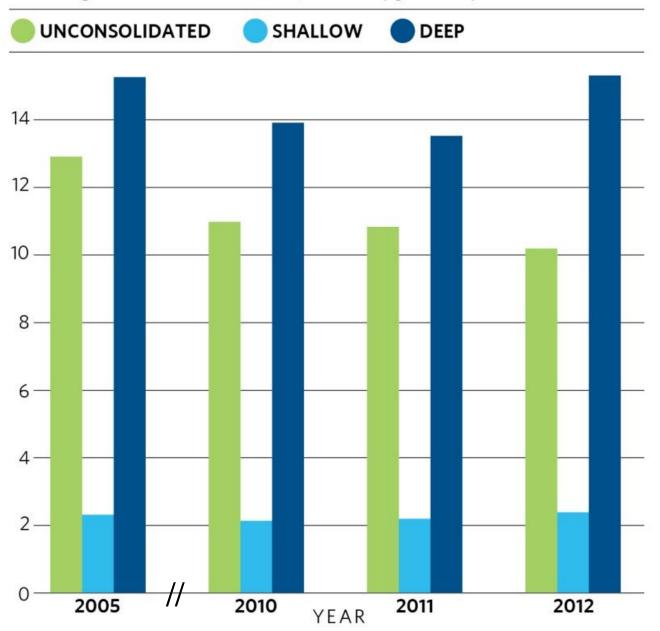
Providence at

Painted Lakes

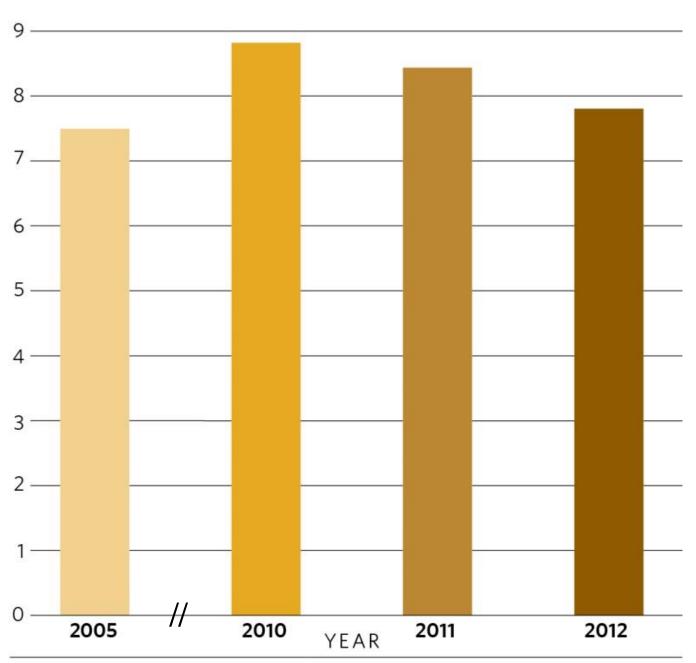
#### Total groundwater withdrawals, by Northwest Water Planning Alliance communities, billions of gallons of water



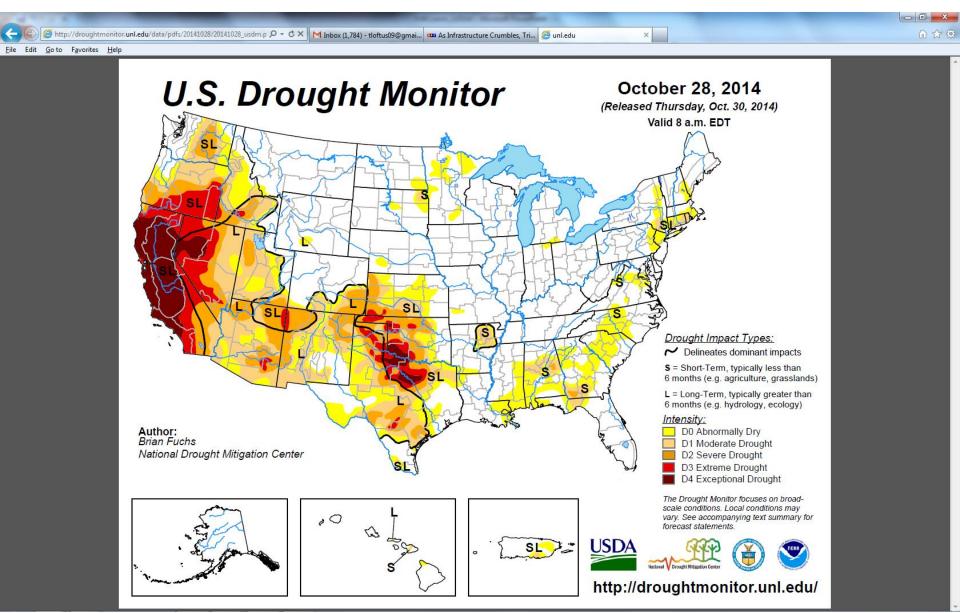
#### Withdrawals reported by groundwater source by Northwest Water Planning Alliance communities, billions of gallons of water



Fox River withdrawals by Aurora and Elgin, billions of gallons of water



Source: Illinois Water Inventory Program, Illinois State Water Survey.



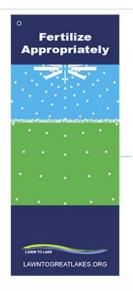
#### **Outdoor Watering**

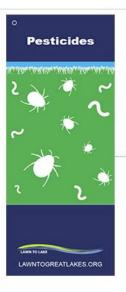
Follow the NWPA color-code recommendation!

- \* green = no drought condition, abnormally dry odd/even watering between 6 9:00 a.m./p.m., exemptions for new lawns
- \* yellow = moderate-severe drought use of sprinkler systems prohibited, exempted uses still allowed
- \* red = extreme-exceptional drought all outdoor use prohibited

#### **Outreach Cards Available!**



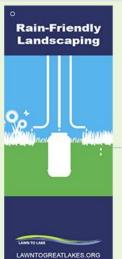














#### **Landscape Water Conservation**

- 1) Water lawns no more than 1 inch / week incl. rain.
- 2) Water based on lawn's appearance not schedule.
- 3) Let your lawn go dormant during dry spells watering deeply (1-1.5 in.) once per four weeks.
- 4) Group plants by their watering needs.
- 5) Use native plants to reduce water use by 20-50%.

# Isyourlawna water guzzle

ts!

more than 50% of commercial and residential irrigation water use goes to waste due to overwatering, evaporation, or runoff?

You can help by...

Following your local water usage and restriction ordinance. If your community does not have one, please consider watering your lawn no more than twice a week, before 10:00 a.m. or after 6:00 p.m

Thank you for doing your part to help ensure that our community and neighboring communities have a clean and reliable water source now and for future generations!

For more information, visit <a href="https://www.epa.gov/WaterSense">www.epa.gov/WaterSense</a>



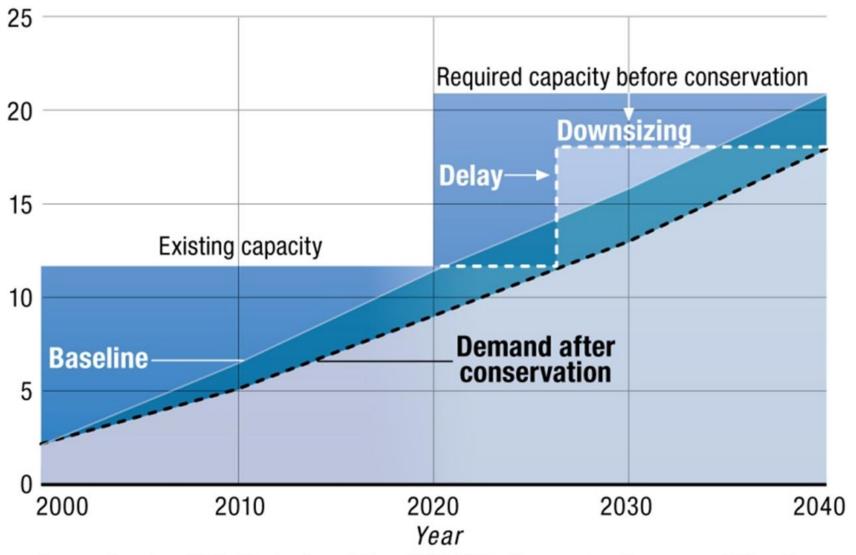
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\* 2056



#### Example of delaying or downsizing a capital facility,

peak demand/capacity in millions gallons per day



Source: American Water Works Association, 2006. Water Conservation Programs – A Planning Manual. AWWA Manual M52, First Edition, page 75.

## Partners with Prairie Research Institute

- \* Developing an estimate of groundwater supply.
- \* Improving water-use reporting for input to the Illinois Water Inventory Program (IWIP). NWPA reporting a pilot for broader web-based reporting.
- \* Need to expand groundwater level monitoring network, esp. in deep bedrock aquifer.



Please participate

in the stewardship of your shared water resources!





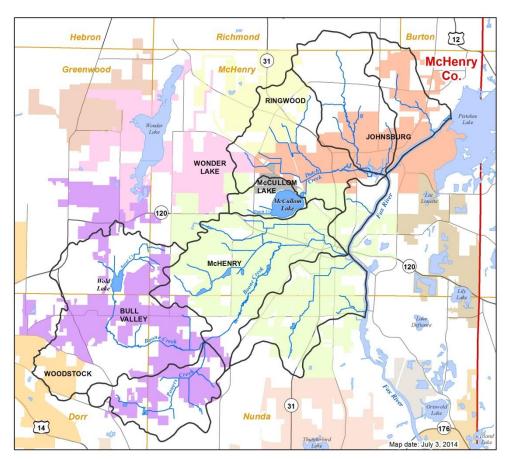








## Boone-Dutch Creek Watershed Planning



#### Thank you!

#### Questions??

